

79671-1

2/14/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, D.C. 20460

2/14/2011

OFFICE OF CHEMICAL  
SAFETY AND POLLUTION  
PREVENTION

Mr. Ronald Landis, Ph. D.  
Regulatory Agent for Vita (Europe) Limited  
c/o Landis International, Inc.  
P.O. Box 5126  
Valdosta, GA 31603-5126

**Subject: AFIGUARD**  
**EPA Registration No. 79671-1**  
**Label Amendment to Make Minor Changes in the Use Directions**  
**Decision Number: 442912**  
**Application Date: December 03, 2010**

Dear Mr. Landis:

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(5), is acceptable provided that you:

1. Submit and/or cite all data required for registration/re-registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit five (3) copies of your final printed labeling before you release the product for shipment. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

If you have any questions contact Driss Benmhend at 703-308-9525 or by e-mail at: [Benmhend.driss@epa.gov](mailto:Benmhend.driss@epa.gov).

A stamped copy of the label is enclosed for your records.

Sincerely,

Linda A. Hollis, Chief  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)

Enclosure

SYMBOL	▶ 7511 P							
SURNAME	▶ Benmhend							
DATE	▶ Feb. 01. 2011							

# APIGUARD

For treatment of varroosis due to *Varroa destructor* in honeybees.

**Active Ingredient:**

Thymol (CAS # 89-83-8) .....	25%
Other Ingredients .....	75%
<b>Total:</b>	<b>100%</b>

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

FIRST AID	
<b>If In Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>In On Skin Or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If Inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>HOT LINE NUMBER</b></p> <p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact CHEMTREC at 800-424-9300 for emergency medical information (24 hours).</p>	

**See side/back panels for additional precautionary statements**

EPA Reg No. 79671-1

Net Contents:

EPA Establishment No. 083118-GBR-001

Manufactured By:  
**VITA (EUROPE) LIMITED**  
 c/o Landis International, Inc.  
 P.O. Box 5126  
 Valdosta, GA 31603-5126  
 800-526-3471

**ACCEPTED**  
 FEB 14 2011

Under the Federal Insecticide, Fungicide,  
 and Rodenticide Act, as amended, for  
 the pesticide registered under  
 EPA Reg. No. **79671-1**

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Danger:** Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wear chemical resistant gloves. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and handlers must wear:

- long-sleeved shirt and long pants
- socks and shoes
- chemical resistant gloves
- protective eyewear (goggles, face shield, or safety glasses)

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

### USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### ENVIRONMENTAL HAZARDS

For terrestrial uses. This product is toxic to aquatic invertebrates. Do not apply directly to water, areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame. Do not store above 86°F.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State/Tribal agency responsible for pesticide regulation.

**READ ENTIRE LABEL, USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

## GENERAL INFORMATION

**Failure to follow directions and precautions on this label may result in poor mite control, and/or illegal residues.**

AFIGUARD is a product specifically designed for use in beehives. The unique slow release gel matrix formulation and easy-to-use tray ensures correct dosage of the active ingredient thymol. AFIGUARD gel regulates the liberation of thymol within the honeybee colony. AFIGUARD has no harmful effect on the honeybee colony, neither on brood nor on adults, when used according to directions.

### For best results:

- Do not use the product when the maximum daily temperature is lower than 60°F or when the colony activity is very low.
- Do not use the product when the maximum daily temperature is above 105°F.
- Combine weak colonies before treatment.
- Make sure the worker bees can access the tray.

### Restrictions:

- Do not treat during honey flow.
- Leave the product in the colony until the trays are empty. In any case remove the product when installing the supers on the colony.
- Remove surplus honey supers before applying treatment.
- Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

## APPLICATION PROCEDURES

The efficacy of AFIGUARD is maximized if the product is used in late summer after the honey harvest (when the amount of brood present is diminishing). However, in the case of severe infestations, AFIGUARD can also be used during springtime, when temperatures are above 60°F. Efficacy will vary between colonies due to the nature of the application. Therefore, AFIGUARD should be used as one treatment among others within an Integrated Pest Management program, and mite fall regularly monitored. If further significant mite fall is observed during the following winter or spring, use an additional secondary winter or spring treatment for varroa.

**For 200 x 25g sachets:** At temperatures above 77°F, a treatment using 2 x 25g or 3 x 25g Afiguard can be used effectively. A fourth dose of 25g gel can be applied at these temperatures, where mite infestations persist.

### METHOD OF ADMINISTRATION:

#### FOR 3 kg TUBS:

Open the hive. Place a piece of wax sheet, cardboard or plastic sheet (approximately 4" x 4"), or the provided dosing tray, centrally on top of the brood frames. Using the dosing tools (scoop and spatula), apply the first dose of 50 g gel from the tub onto the tray. Ensure the scoop is full and level off the excess with the spatula. Use the spatula to scrape the gel to an even thickness over the tray area with the spatula. Ensure that there is a free space of at least ¼ inch between the top of the tray and the hive cover board, for example, by placing an empty super on top of the brood box. Close the hive. After two weeks apply the second dose of 50 g gel following the same procedure.

Leave the product in the colony for a further 2 to 4 weeks until it totally disappears from the tray or until supers are installed, whichever is sooner. Total treatment period should be a minimum of 4 weeks and a maximum of 6 weeks.

Small and wintering bee colonies and nuclei requires one dose of 25 g gel only, left in place until the product disappears from the tray. Dose out 50 g onto the treatment tray as before and cut in half.

**FOR 50 g READY TO USE ALUMINUM TRAYS:**

Open the hive. Peel back the foil lid of the APIGUARD tray leaving one corner of the lid attached to the tray. Place the open tray centrally on top of the brood frames, gel side up. Ensure that there is a free space of at least ¼ inch between the top of the tray and the hive cover board, for example, by placing an empty super on top of the brood box. Close the hive. After two weeks replace the first tray with a new one, according to the same instruction. Leave the product in the colony until the tray is empty. Remove the product when installing the supers on the colony.

**FOR 200x 25g SACHETS:**

Open the hive. Place the dosing tray provided (approximately 4" x 4") centrally on top of the brood frames. Tear open the Apiguard sachet at the tear notch and squeeze out the sachet contents onto the dosing tray or surface. Ensure that there is a free space of at least ¼ inch between the top of the tray and the hive cover board, for example, by placing an empty super on top of the brood box. Close the hive. After one week replace with a second dose of 25g Apiguard gel. One week after the second dose apply a third dose of 25g Apiguard, following the same procedure. Where mite infestations are high, a fourth dose of 25g Apiguard can be introduced one to two weeks after the third dose. Leave the product in the colony for a further 2 to 4 weeks until it totally disappears from the tray or until supers are installed, whichever is sooner. Total treatment period should be a minimum of 4 weeks and a maximum of 6 weeks. Small and wintering bee colonies and nuclei require one dose of 25g gel only, left in place until the product disappears from the tray. At temperatures above 77°F, small or weak colonies can be treated with 12.5g Apiguard (half a sachet) only.

**Overdose:**

The use of a dose higher than 50 g gel per application, corresponding to 12.5 g thymol, could cause disturbances in the behavior of the colony (agitation, absconding or increased mortality).

**For 200 x 25g sachets:** At temperatures above 77°F, the dose can be reduced to 1 x 25g (one sachet) per application.

In case of overdose, remove the excess product from the colony.

**Withdrawal Period:**

- Surplus honey supers can be installed immediately after the end of treatment and removal of the Apiguard product.
- Honey may be harvested immediately upon accumulation of sufficient surplus in the supers.
- Do not use during honey flow.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Do not store above 86°F. Do not freeze. Keep unopened in original packaging. Protect from direct sunlight.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of container in a sanitary landfill, or by other procedures approved by State and local authorities.

**WARRANTY AND DISCLAIMER STATEMENT**

VITA (EUROPE) LIMITED, warrants that this product in its unopened package conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions to the crops specified. There are no other warranties, expressed or implied, concerning the use of this product other than indicated on the label. This warranty does not extend to the handling or use of this product contrary to label instructions.